Amendments to the Claims

This listing of claims, if entered, will replace all prior versions and listings of claims in the present application.

1.   (Previously Presented)   A computer-implemented method for managing inventory, the method comprising:

synchronizing inventory balance information between a source computerized inventory

management system and a target computerized inventory management system, wherein

the source computerized inventory management system and the target computerized

inventory management system are among a plurality of computerized inventory

management systems,

the synchronizing is bi-directional, wherein

the synchronizing is performed by an integration server, and

the synchronizing comprises

extracting inventory balance information in a source format, wherein

the source format is a format used by the source computerized inventory

management system, and

the inventory balance information in the source format is associated with

the source computerized inventory management system,

converting the inventory balance information in the source format into source

inventory balance information in an intermediate format,

receiving target inventory balance information, wherein

the target inventory balance information is associated with the target

computerized inventory management system,

converting the target inventory balance information into target inventory balance

information in the intermediate format,

generating an inventory balance delta, wherein

the inventory balance delta is calculated as a difference between a source

inventory balance and a target inventory balance,

the source inventory balance information in the intermediate format

comprises the source inventory balance,

the target inventory balance information in the intermediate format
comprises the target inventory balance, and

the generating is performed by the integration server, and

converting the inventory balance delta into inventory balance information in a
target format, wherein

the target format is a format used by the target computerized inventory
management system,

the inventory balance information in the target format comprises the
inventory balance delta, and

the inventory balance information in the target format is associated with
the target computerized inventory management system.

2.   (Previously Presented) The computer-implemented method of Claim 1, wherein
the receiving the target inventory balance information is performed in response to
querying the target computerized inventory management system by the
integration server.

3.   (Previously Presented) The computer-implemented method of Claim 1, further
comprising:
extracting inventory balance information in a second source format that is associated with a
second source computerized inventory management system that is distinct from the first
source computerized inventory management system, wherein
the second source computerized inventory management system is one of the plurality of
computerized inventory management systems;
converting the inventory balance information in the second source format into inventory balance
information that is in the intermediate format;
converting the inventory balance information in the intermediate format into inventory balance
information in the target format; and
using the inventory balance information in the target format to update an existing inventory
balance record in the target computerized inventory management system.

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4.   (Previously Presented) The computer-implemented method of Claim 1, further comprising:

updating existing inventory balance information using the inventory balance information in the

    target format, wherein

    the existing inventory balance information is in the target format,

    the existing inventory balance information is associated with the target computerized

        inventory management system, and

    the updating is based, at least in part, on the inventory balance delta.

5.   (Previously Presented) The computer-implemented method of Claim 1, wherein the intermediate format comprises a hierarchy of data elements comprising a plurality of inventory balance elements comprising:

    a list of inventory balances element;

    an inventory balance related inventory location element;

    a list of related inventory balances for defining a plurality of related inventory balances;

        and

    a custom data element for defining customized attributes for the inventory.

6.   (Previously Presented) The computer-implemented method of Claim 5, wherein each of the plurality of inventory balance elements comprises a related inventory location element for defining related inventory location identifier.

7.   (Previously Presented) The computer-implemented method of Claim 5, wherein each of the plurality of inventory balance elements comprises a list of inventory balance data element for defining a plurality of inventory balance data elements.

8.   (Previously Presented) The computer-implemented method of Claim 5, wherein each of the plurality of inventory balance elements comprises an inventory balance custom data.

9.   (Previously Presented) The computer-implemented method of Claim 7, wherein each of the plurality of inventory balance data elements comprises a related product element for defining a product identifier.

10.　(Previously Presented)　The computer-implemented method of Claim 7, wherein each of the plurality of inventory balance data element comprises a list of balance data element for defining a plurality of balance data elements.

11.　(Previously Presented)　The computer-implemented method of Claim 10, wherein each of the plurality of balance data elements comprises:

　　　　a bucket code element;

　　　　a quantity of product element;

　　　　a product unit of measure code element; and

　　　　a balance data custom data element.

12.　(Previously Presented)　A computer-readable storage medium carrying one or more sequences of instructions for managing inventory, wherein execution of the one or more sequences of instructions by one or more processors causes the one or more processors to perform:

synchronizing inventory balance information between a source computerized inventory

　　　　management system and a target computerized inventory management system, wherein

　　　　the source computerized inventory management system and the target computerized

　　　　　　　　inventory management system are among a plurality of computerized inventory

　　　　　　　　management systems,

　　　　the synchronizing is bi-directional, wherein

　　　　the synchronizing is performed by an integration server, and

　　　　the synchronizing comprises

　　　　　　　　extracting inventory balance information in a source format, wherein

　　　　　　　　　　　　the source format is a format used by the source computerized inventory

　　　　　　　　　　　　　　　　management system, and

　　　　　　　　　　　　the inventory balance information in the source format is associated with

　　　　　　　　　　　　　　　　the source computerized inventory management system,

　　　　　　　　converting the inventory balance information in the source format into source

　　　　　　　　　　　　inventory balance information in an intermediate format,

　　　　　　　　receiving inventory balance information, wherein

　　　　　　　　　　　　the target inventory balance information is associated with the target

　　　　　　　　　　　　　　　　computerized inventory management system,

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converting the target inventory balance information into target inventory balance
information in the intermediate format,

generating an inventory balance delta, wherein

the inventory balance delta is calculated as a difference between a source
inventory balance and a target inventory balance,

the source inventory balance information in the intermediate format
comprises the source inventory balance,

the target inventory balance information in the intermediate format
comprises the target inventory balance, and

the generating is performed by the integration server, and

converting the inventory balance delta into inventory balance information in a
target format, wherein

the target format is a format used by the target computerized inventory
management system,

the inventory balance information in the target format comprises the
inventory balance delta, and

the inventory balance information in the target format is associated with
the target computerized inventory management system.

13.   (Previously Presented)   The computer-readable storage medium of Claim 12, wherein
the receiving inventory balance information is performed in response to querying
the target computerized inventory management system by the integration server.

14.   (Previously Presented)   The computer-readable storage medium of Claim 12, further
comprising:

extracting inventory balance information in a second source format that is associated with a
second source computerized inventory management system that is distinct from the first
source computerized inventory management system, wherein
the second source computerized inventory management system is one of the plurality of
computerized inventory management systems;

converting the inventory balance information in the second source format into inventory balance
information that is in the intermediate format;

converting the inventory balance information in the intermediate format into inventory balance
information in the target format; and

using the inventory balance information in the target format to update an existing inventory
balance record in the target computerized inventory management system.

15.   (Previously Presented) The computer-readable storage medium of Claim 12, further
comprising:
updating existing inventory balance information using the inventory balance information in the
target format, wherein
the existing inventory balance information is in the target format,
the existing inventory balance information is associated with the target computerized
inventory management system, and
the updating is based, at least in part, on the inventory balance delta.

16.   (Previously Presented) The computer-readable storage medium of Claim 12, wherein
the intermediate format comprises a hierarchy of data elements comprising a plurality of
inventory balance elements comprising:
a list of inventory balances element;
an inventory balance related inventory location element;
a list of related inventory balances for defining a plurality of related inventory balances;
and
a custom data element for defining customized attributes for the inventory.

17.   (Previously Presented) The computer-readable storage medium of Claim 16, wherein
each of the plurality of inventory balance elements comprises a related inventory location
element for defining related inventory location identifier.

18.   (Previously Presented) The computer-readable storage medium of Claim 16, wherein
each of the plurality of inventory balance elements comprises a list of inventory balance data
element for defining a plurality of inventory balance data elements.

19.   (Previously Presented) The computer-readable storage medium of Claim 16, wherein
each of the plurality of inventory balance elements comprises an inventory balance custom data.

20.   (Previously Presented) The computer-readable storage medium of Claim 18, wherein
each of the plurality of inventory balance data elements comprises a related product element for
defining a product identifier.

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21.   (Previously Presented) The computer-readable storage medium of Claim 18, wherein each of the plurality of inventory balance data elements comprises a list of balance data element for defining a plurality of balance data.

22.   (Previously Presented) The computer-readable storage medium of Claim 21, wherein each of the plurality of balance data elements comprises:

        a bucket code element;

        a quantity of product element;

        a product unit of measure code element; and

        a balance data custom data element.

23-33. (Canceled)

34.   (Previously Presented)   The computer-implemented method of Claim 1, further comprising:

receiving second target inventory balance information, wherein

        the second inventory balance information is associated with a second source

                computerized inventory management system,

converting the second inventory balance information into second source inventory balance

        information in the intermediate format, and

the generating the inventory balance delta further comprises calculating a second difference

        between a second source inventory balance and the difference between the source

        inventory balance and the target inventory balance, wherein

                the second source inventory balance information in the intermediate format

                    comprises the second source inventory balance.

35.   (Previously Presented) The computer-implemented method of Claim 1, wherein

        the source inventory balance information comprises the source inventory balance for a

            plurality of products;

        the target inventory balance information comprises the target inventory balance for the

            plurality of products; and

        the inventory balance delta comprises a plurality of differences between the source

            inventory balance and the target inventory balance, wherein

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each of the plurality of differences indicates a difference between the source

inventory balance for one of the plurality of products and a corresponding

target inventory balance for the one of the plurality of products.

36.   (Previously Presented) The computer-implemented method of Claim 35, wherein the
converting the inventory balance delta into inventory balance information in the target format
comprises:

converting the inventory balance delta into a plurality of inventory balance information in

the target format, wherein

each of the plurality of inventory balance information in the target format is

associated with a different one of the plurality of products.

37.   (**Currently Amended**) The computer-implemented method of Claim <u>1</u> ~~36~~, wherein

the source inventory balance information further comprises ~~the~~ <u>**a respective**</u> source

inventory balance at each location ~~out~~ of a plurality of locations.

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